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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,891	11/04/2003	Mayu Yamada	244823US90	3487
	OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.		EXAMINER	
1940 DUKE STREET ALEXANDRIA, VA 22314		SAFAIPOUR, BOBBAK		
			ART UNIT	PAPER NUMBER
			2618	
			NOTIFICATION DATE	DELIVERY MODE
			12/26/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/699,891	YAMADA ET AL.	
Office Action Summary	Examiner	Art Unit	
	BOBBAK SAFAIPOUR	2618	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tird d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>04 l</u> This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowated closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1,2,5,6,9 and 12-14 is/are pending in 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-2, 5-6, 9, 12-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.		
<u> </u>			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the defended or b) for objected to by the defended or by the drawing(s) is objection is required if the drawing(s) is objection is	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicati ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/4/2008 has been entered.

Claims 3-4, 7-8 and 10-11 have been cancelled.

Claims 1-2, 5-6, 9 and 12-14 are still pending in the present application.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-2, 5-6, 9 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayama et al (US 7,006,484) in view of Davidson et al. (US 6,483,820 B1; hereinafter Davidson).

Consider **claim 1**, Hayama et al disclose a mobile communication system comprising: a holding unit configured to hold layered data and a corresponding radio resource amount required for transmitting the layered data (figure 2; col. 5, lines 29-48);

a determination unit configured to compare area resource information indicating a currently available radio resource amount for respective radio areas covered by base station with the radio resource amount held in the holding unit, and to determine, from layered data of a highest layer, at least one layered data of which the radio resource held in the holding unit satisfies the area radio resource amount (figure 2; col. 1, lines 44-67; col. 3, lines 1-43; and col. 5, lines 29-67)

a radio transmitter configured to transmit the at least one layered data determined by the determination unit from the base station to the mobile stations (col. 2, lines 12-13).

Hayama fails to specifically disclose holding layered data and a corresponding radio resource amount indicating at least one of a number of channels, a number of multiplexed codes or a transmission power required for transmitting the layered data and comparing area resource

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information indicating at least one of an available number of channels, an available number of multiplexed codes or an available transmission power for respective radio areas covered by base stations with the radio.

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In related art, Davidson discloses holding layered data and a corresponding radio resource amount indicating at least one of a number of channels (read as traffic channels), a number of multiplexed codes or a transmission power required for transmitting the layered data and comparing area resource information indicating at least one of an available number of channels, an available number of multiplexed codes or an available transmission power for respective radio areas covered by base stations with the radio. (figure 4; col. 6, lines 39-55; A resource restriction flag 396 value of Y indicates a restriction on upgrading due to a lack of radio resources. This flag can be set to Y when the MSC/VLR 340 determines that the serving BTS 320 is operating at a given capacity, such that assigning more traffic channels to the MS 310 may result in performance loss of the system, e.g., blocking of other MSs from access, etc. A traffic channel availability flag 398 value of N indicates that the MS 310 is already operating at the maximum allowable number of channels, e.g., the maximum number of channels that this particular MS 310 subscriber has agreed to pay for.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Davidson into the teachings of Hayama to provide dynamic demand based management of traffic channel allocation in a mobile communications network providing high speed data services.

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Consider claim 2, Hayama et al disclose a radio network controller comprising:

a holding unit configured to hold layered data and a corresponding radio resource amount required for transmitting the layered data (figure 2; col. 5, lines 29-48);

a determination unit configured to compare area resource information indicating a currently available radio resource amount for respective radio areas covered by base station with the radio resource amount held in the holding unit, and to determine, from layered data of a highest layer, at least one layered data of which the radio resource held in the holding unit satisfies the currently available radio resource amount (figure 2; col. 1, lines 44-67; col. 3, lines 1-43; and col. 5, lines 29-67) and

a data transmitter configured to transmit the at least one layered data determination by the determination unit to the respective base stations (col. 2, lines 12-13).

Hayama fails to specifically disclose holding layered data and a corresponding radio resource amount indicating at least one of a number of channels, a number of multiplexed codes or a transmission power required for transmitting the layered data and comparing area resource information indicating at least one of an available number of channels, an available number of multiplexed codes or an available transmission power for respective radio areas covered by base stations with the radio.

In related art, Davidson discloses holding layered data and a corresponding radio resource amount indicating at least one of a number of channels (read as traffic channels), a number of multiplexed codes or a transmission power required for transmitting the layered data and comparing area resource information indicating at least one of an available number of channels, an available number of multiplexed codes or an available transmission power for

respective radio areas covered by base stations with the radio. (figure 4; col. 6, lines 39-55; A resource restriction flag 396 value of Y indicates a restriction on upgrading due to a lack of radio resources. This flag can be set to Y when the MSC/VLR 340 determines that the serving BTS 320 is operating at a given capacity, such that assigning more traffic channels to the MS 310 may result in performance loss of the system, e.g., blocking of other MSs from access, etc. A traffic channel availability flag 398 value of N indicates that the MS 310 is already operating at the maximum allowable number of channels, e.g., the maximum number of channels that this particular MS 310 subscriber has agreed to pay for.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Davidson into the teachings of Hayama to provide dynamic demand based management of traffic channel allocation in a mobile communications network providing high speed data services.

Consider **claim 6**, Hayama et al disclose a base station comprising:

- a holding unit configured to hold layered data and a corresponding radio resource amount required for transmitting the layered data (figure 2; col. 5, lines 29-48);
- a determination unit configured to compare area resource information indicating a currently available radio resource amount for respective radio areas covered by base station with the radio resource amount held in the holding unit, and to determine, from layered data of a highest layer, at least one layered data of which the radio resource held in the holding unit

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satisfies the currently available radio resource amount (figure 2; col. 1, lines 44-67; col. 3, lines 1-43; and col. 5, lines 29-67)

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a radio transmitter configured to transmit the at least one layered data determined by the determination unit from the base station to the mobile stations (col. 2, lines 12-13).

Hayama fails to specifically disclose holding layered data and a corresponding radio resource amount indicating at least one of a number of channels, a number of multiplexed codes or a transmission power required for transmitting the layered data and comparing area resource information indicating at least one of an available number of channels, an available number of multiplexed codes or an available transmission power for respective radio areas covered by base stations with the radio.

In related art, Davidson discloses holding layered data and a corresponding radio resource amount indicating at least one of a number of channels (read as traffic channels), a number of multiplexed codes or a transmission power required for transmitting the layered data and comparing area resource information indicating at least one of an available number of channels, an available number of multiplexed codes or an available transmission power for respective radio areas covered by base stations with the radio. (figure 4; col. 6, lines 39-55; A resource restriction flag 396 value of Y indicates a restriction on upgrading due to a lack of radio resources. This flag can be set to Y when the MSC/VLR 340 determines that the serving BTS 320 is operating at a given capacity, such that assigning more traffic channels to the MS 310 may result in performance loss of the system, e.g., blocking of other MSs from access, etc. A traffic channel availability flag 398 value of N indicates that the MS 310 is already operating at the

maximum allowable number of channels, e.g., the maximum number of channels that this particular MS 310 subscriber has agreed to pay for.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Davidson into the teachings of Hayama to provide dynamic demand based management of traffic channel allocation in a mobile communications network providing high speed data services.

Consider **claim 12**, Hayama et al disclose a communication method used in mobile communication system which comprises a holding unit configured to hold layered data and a corresponding radio resource amount required for transmitting the layered data (figure 2; col. 5, lines 29-48), the communication method comprising;

a determination unit configured to compare area resource information indicating a currently available radio resource amount for respective radio areas covered by base station with the radio resource amount held in the holding unit, and to determine, from layered data of a highest layer, at least one layered data of which the radio resource held in the holding unit satisfies the currently available radio resource amount (figure 2; col. 1, lines 44-67; col. 3, lines 1-43; and col. 5, lines 29-67) and

transmitting the at least one layered data determined in the determining step to the mobile stations (col. 2, lines 12-13).

Hayama fails to specifically disclose holding layered data and a corresponding radio resource amount indicating at least one of a number of channels, a number of multiplexed codes or a transmission power required for transmitting the layered data and comparing area resource

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information indicating at least one of an available number of channels, an available number of multiplexed codes or an available transmission power for respective radio areas covered by base stations with the radio.

In related art, Davidson discloses holding layered data and a corresponding radio resource amount indicating at least one of a number of channels (read as traffic channels), a number of multiplexed codes or a transmission power required for transmitting the layered data and comparing area resource information indicating at least one of an available number of channels, an available number of multiplexed codes or an available transmission power for respective radio areas covered by base stations with the radio. (figure 4; col. 6, lines 39-55; A resource restriction flag 396 value of Y indicates a restriction on upgrading due to a lack of radio resources. This flag can be set to Y when the MSC/VLR 340 determines that the serving BTS 320 is operating at a given capacity, such that assigning more traffic channels to the MS 310 may result in performance loss of the system, e.g., blocking of other MSs from access, etc. A traffic channel availability flag 398 value of N indicates that the MS 310 is already operating at the maximum allowable number of channels, e.g., the maximum number of channels that this particular MS 310 subscriber has agreed to pay for.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Davidson into the teachings of Hayama to provide dynamic demand based management of traffic channel allocation in a mobile communications network providing high speed data services.

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Consider **claim 5**, and **as applied to claim 2 above**, Hayama et al, as modified by Davidson, disclose the claimed invention wherein a resource information receiver configured to receive the area resource information from the base stations, wherein the determination unit is configured to determine the at least one layered data based on the area resource information received by the resource information receiver (figures 2-4, 7A-7D; col. 2, lines 1-13, 25-43; col. 5, line 49 to col. 6, line 37).

Consider **claim 9**, and **as applied to claim 6 above**, Hayama et al, as modified by Davidson, disclose the claimed invention wherein a resource information collection unit configured to collect the area resource information, wherein the determination unit is configured to determine the at least one layered data, based on the area resource information collected by the resource information collection unit (figures 2-4, 7A-7D; col. 2, lines 1-13, 25-43; col. 5, line 49 to col. 6, line 37).

Consider **claim 13**, and **as applied to claim 2 above**, Hayama et al, as modified by Davidson, disclose the claimed invention wherein the area resource information is at least one of radio resources capacity for the respective radio areas covered by the base stations and radio resources amount currently available for the respective radio areas. (figures 2-4, 7A-7D; col. 1, lines 44-67; col. 2, lines 1-13, 25-43; col. 3, lines 1-43; col. 5, line 49 to col. 6, line 37)

Consider **claim 14**, and **as applied to claim 10 above**, Hayama et al, as modified by Davidson, disclose the claimed invention wherein the area resource information is at least one of

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radio resources capacity for the respective radio areas covered by the base station and radio resources amount currently available for the respective radio areas. (figures 2-4, 7A-7D; col. 1, lines 44-67; col. 2, lines 1-13, 25-43; col. 3, lines 1-43; col. 5, line 49 to col. 6, line 37)

Conclusion

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If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

/Bobbak Safaipour/ Examiner, Art Unit 2618

December 19, 2008

/Matthew D. Anderson/

Supervisory Patent Examiner, Art Unit 2618